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C04B 7/38**B09B 3/00****C04B 7/60**(21)Application number : **10-156202**(71)Applicant : **TAIHEIYO CEMENT CORP**(22)Date of filing : **04.06.1998**(72)Inventor : **ITO MITSUHIRO
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(30)Priority

Priority number : **09205246** Priority date : **14.07.1997** Priority country : **JP****(54) CONVERSION TREATMENT OF WASTE INTO CEMENT RAW MATERIAL**

(57)Abstract:

PROBLEM TO BE SOLVED: To effectively utilize waste conventionally subjected to landfill disposal by using as a cement raw material, desalted cake obtained with the treatment that comprises adding water to waste contg. chlorine to elute chlorine in the waste, and filtering the resulting material.

SOLUTION: This treatment is used for treating as waste contg. chlorine, preferably, fly ash discharged at the time of incinerating waste, or dust formed by a process that comprises: circulating volatile components such as chlorine, sulfur and alkali, through a cement kiln and a preheater in a cement production equipment to concentrate them; then, extracting the volatile components together with an exhaust gas out of the kiln; quenching the extracted exhaust gas contg. the components such as chlorine, sulfur and alkali, at a temp. equal to or lower than the melting points of the compounds of these components; and thereafter, removing the components as dust contg. water-soluble chlorine compounds. The treatment comprises: adding water to such waste contg. chlorine to elute chlorine in the waste; filtering the resulting material to separate a filtrate and to obtain the objective desalted cake which is used as cement raw material; precipitating heavy metals and hazardous substances in the filtrate to remove the heavy metals and hazardous substances by filtration; evaporating the filtrate thus obtained to separate and remove chlorides as the evaporation residue; and on the other hand, the evaporated water is liquefied to obtain water which is preferably reused for eluting chlorine.

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